What is claimed is:

1. An air flow rate measuring device adapted to be mounted on an intake pipe of an internal combustion engine for measuring a flow rate of air flowing through a main passage inside the intake pipe,

said device comprising:

a base having its one end directed along an axial direction of said main passage toward an upstream side of air flowing therein, and its other end directed toward a downstream side of the air, said base being formed with a groove which is bent at a location between the opposite ends thereof; and

a circuit module including a support substrate and a detection element installed one surface of said support substrate for detecting said flow rate of air, said module being joined to said base in a face-to-face relation with respect to each other to form an auxiliary passage in cooperation with said groove;

wherein said detection element on said one surface of said support substrate is exposed to air in said auxiliary passage, and the other surface of said support substrate is exposed to air in said main passage.

2. The air flow rate measuring device as set forth in claim 1, wherein said detection element is disposed in a concave portion of said support substrate so as to be flush with said one surface of said support substrate.

3. The air flow rate measuring device as set forth in claim 1, wherein said one end of said base, which is disposed at said upstream side of air and at which said support substrate and said base are joined to each other, takes a curved surface configuration when sectioned along the axial direction thereof vertically with respect to said support substrate.

4. The air flow rate measuring device as set forth in claim 3, wherein said other end of said base, which is disposed at said downstream side of air and at which said support substrate and said base are joined to each other, takes a curved surface configuration when sectioned along the axial direction thereof vertically with respect to said support substrate, and has a cross-sectional shape symmetric with respect to a central axis thereof.

5. The air flow rate measuring device as set forth in claim 1, wherein a cover for covering said other surface of said support substrate is attached to

said other surface of said support substrate, and said one end of said base, which is disposed at said upstream side of air and at which said support substrate with said cover attached thereto and said base are joined to each other, takes a curved surface configuration when sectioned along the axial direction thereof vertically with respect to said support substrate.